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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,309	11/19/2003	Darrell J. King	3556.1000-003	6481
21005 75	90 12/16/2005		EXAMINER	
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.			TSO, EDWARD H	
530 VIRGINIA			ART UNIT	PAPER NUMBER

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/717,309	KING ET AL.	
Office Action Summary	Examiner	Art Unit	
	Edward H. Tso	2838	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence addres	:s
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING. Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUN R 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MC statute, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commuNBANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on _ This action is FINAL . 2b)⊠ Since this application is in condition for all closed in accordance with the practice unc	This action is non-final. bwance except for formal ma		rits is
Disposition of Claims			
4) ☐ Claim(s) 1-40 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-40 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	ndrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exar 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co	accepted or b) objected to the drawing(s) be held in abeya prection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the copies of the priority document of the copies of the copies of the application from the International But * See the attached detailed Office action for a copies of the application from the International But * See the attached detailed Office action for a copies of the application from the International But * See the attached detailed Office action for a copies of the application from the International But * See the attached detailed Office action for a copies of the priority document of t	nents have been received. nents have been received in priority documents have bee treau (PCT Rule 17.2(a)).	Application No n received in this National Staç	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 7/6/04;10/21/04.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152 	;)

Application/Control Number: 10/717,309

Art Unit: 2838

DETAILED ACTION

Information Disclosure Statement

The IDSes filed 7/6/04 and 10/21/04 have both been considered and placed of record. The initialed copies are attached herewith.

Specification

The disclosure should be carefully reviewed to ensure that any and all grammatical, idiomatic, and spelling or other minor errors are corrected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-18, 21-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Peter et al. (US 5,592,067). The reference discloses a charge equalizer having, *inter alia*, a plurality of battery cells, a charge controller for distributing the charge among the cells through a non-dissipated load (phantom module) until a threshold target is reached. Converters are used to up-transfer or down-transfer the charges through a series of switching topologies.

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Claim Rejections - 35 USC § 103

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19, 20, 39 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peter et al. (US 5,592,067). The reference does not disclose a timer for tracking the charge and/or discharge time. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided a timed charge/discharge circuit, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

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Conclusion

Any inquiry concerning this communication should be directed to the Examiner at the below-listed number on every Monday, Thursday and Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Karl Easthom, can be reached at (571) 272-1989 on Monday-Thursday.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist at (571) 272-2800, Monday-Friday, 8:30am to 5:00pm, EST.

By:

ÉDWARD H TSO Primary Examiner (571) 272-2087 Page 4